

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 15664 PCT00	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/DK2004/000741	International filing date (day/month/year) 28/10/2004	(Earliest) Priority Date (day/month/year) 30/10/2003
Applicant PHARMEXA A/S		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☒ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (See Box II).

3. ☒ Unity of invention is lacking (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
- a. type of material
- ☒ a sequence listing
- ☐ table(s) related to the sequence listing
- b. format of material
- ☒ in written format
- ☒ in computer readable form
- c. time of filing/furnishing
- ☒ contained in the international application as filed
- ☒ filed together with the international application in computer readable form
- ☐ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-37 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-64 (partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-64 (all partially)

Method to downregulate VEGF, compositions, vector, transformed cells all based on VEGF-A isoform 121 (SEQ ID NO:5).

2. claims: claims 1-64 (all partially)

Method to downregulate VEGF, compositions, vector, transformed cells all based on VEGF-A isoform 165 (SEQ ID NO:4).

3. claims: 1-17,19-64 (all partially)

Method to downregulate VEGF, compositions, vector, transformed cells all based on a VEGF protein other than VEGF-A isoform 121 (SEQ ID NO:5) or VEGF-A isoform 165 (SEQ ID NO:4).

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/52 A61K38/18 C07K7/06 C07K7/08 C07K14/435
A61K39/00 A61K48/00 A61K39/385 A61K38/19

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, BIOSIS, WPI Data, EMBASE, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02/097044 A (WONG ALBERT J ; UNIV JEFFERSON (US)) 5 December 2002 (2002-12-05) page 2 - page 38; claims 27,29,34; examples 1-8	1-64
Y	WO 03/015812 A (NIELSEN KLAUS GREGORIUS ; KOEFOED PETER (DK); PHARMEXA AS (DK); JENSEN) 27 February 2003 (2003-02-27) the whole document	1-64
Y	WO 02/11759 A (NEOVACS ; ZAGURY DANIEL (FR); BIZZINI BERNARD (FR); LE BUANE HELENE () 14 February 2002 (2002-02-14) the whole document	1-64

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

17 January 2005

Date of mailing of the international search report

04 05 2005

Name and mailing address of the ISA

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Gruber, A

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WEI Y-Q ET AL: "Immunogene therapy of tumors with vaccine based on Xenopus homologous vascular endothelial growth factor as a model antigen" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 98, no. 20, 25 September 2001 (2001-09-25), pages 11545-11550, XP002248645 ISSN: 0027-8424 the whole document	1-64
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 01, 31 January 1997 (1997-01-31) -& JP 08 225462 A (TOAGOSEI CO LTD), 3 September 1996 (1996-09-03) the whole document	1-64
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 04, 31 March 1998 (1998-03-31) -& JP 09 316000 A (TOAGOSEI CO LTD), 9 December 1997 (1997-12-09) the whole document	1-64
A	WO 86/07383 A (BIOTECH RES PARTNERS LTD) 18 December 1986 (1986-12-18) cited in the application the whole document	1-64
A	FERRARA NAPOLEONE: "VEGF and the quest for tumour angiogenesis factors." NATURE REVIEWS CANCER, vol. 2, no. 10, October 2002 (2002-10), pages 795-803, XP008041530 ISSN: 1474-175X the whole document	1-64

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02097044	A	05-12-2002	CA 2448109 A1 CN 1511040 A EP 1401472 A2 WO 02097044 A2 US 2003069181 A1	05-12-2002 07-07-2004 31-03-2004 05-12-2002 10-04-2003
WO 03015812	A	27-02-2003	BR 0212047 A CA 2440197 A1 CA 2457140 A1 WO 02066056 A2 WO 03015812 A2 EP 1363664 A2 EP 1420815 A2 HR 20040218 A2 HU 0400669 A2 JP 2004529881 T JP 2004538332 T NZ 527720 A US 2002119162 A1 US 2003157117 A1 US 2004191264 A1	17-08-2004 29-08-2002 27-02-2004 29-08-2002 27-02-2003 26-11-2003 26-05-2004 31-08-2004 28-01-2005 30-09-2004 24-12-2004 24-03-2005 29-08-2002 21-08-2003 30-09-2004
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JP 08225462	A	03-09-1996	NONE	
JP 09316000	A	09-12-1997	NONE	
WO 8607383	A	18-12-1986	AU 5993186 A CN 86103836 A DK 58887 A EP 0224574 A1 ES 8801127 A1 JP 62503073 T WO 8607383 A1	07-01-1987 08-07-1987 03-04-1987 10-06-1987 01-03-1988 10-12-1987 18-12-1986